

CLAIMS

1. Throttle flap valve having an essentially ring-shaped, elastic seal element (4) that surrounds an axial opening, having a valve disk (6) disposed to rotate in the axial opening, crosswise to the axial direction, having means for turning the valve disk (6) between the open and the closed positions, to control a flow of fluid through the opening, having at least two valve housing parts (5) that essentially surround the seal element (4) in ring shape, which surround two flanges (3) connected with an inflow (1) and an outflow (2), whereby conical contact surfaces of the flanges (3) and/or the valve housing parts (5) work together in such a manner that the flanges (3) are pressed axially against the seal element (4), forming a seal, by means of the valve housing parts (5), in the assembled state ready for operation, CHARACTERIZED IN THAT the flanges (3) are rigidly connected with the valve housing parts (5), forming a positive lock, in each instance.
2. Throttle flap valve according to claim 1, CHARACTERIZED IN THAT the valve housing parts are configured as two clamp halves (5).

3. Throttle flap valve according to claim 2, CHARACTERIZED IN THAT the inner surfaces of the clamp halves (5) that are in contact with the seal element (4) have two ring-shaped depressions (10) that surround the flanges (3).
4. Throttle flap valve according to claim 3, CHARACTERIZED IN THAT the depressions (10) are beveled at the edges (11).
5. Throttle flap valve according to one of the preceding claims, CHARACTERIZED IN THAT the flanges (3) are configured to narrow conically towards the outside.
6. Throttle flap valve according to one of the preceding claims, CHARACTERIZED IN THAT the valve housing parts (5) are configured so that they can be connected with screws (13) and nuts (14).
7. Throttle flap valve according to one of the preceding claims, CHARACTERIZED IN THAT the valve housing parts (5) are configured with two ring-shaped recesses (8) that lie radially opposite one another, for accommodating valve disk shafts (7) of the valve disk (6).

8. Throttle flap valve according to one of the preceding claims, CHARACTERIZED IN THAT the means for turning the valve disk (6) is a hand wheel.
9. Throttle flap valve according to one of claims 1 to 8 , CHARACTERIZED IN THAT the means for turning the valve disk (6) is an automatic setting element.
10. Throttle flap valve according to one of the preceding claims, CHARACTERIZED IN THAT the flanges (3) are shaped to have rotation symmetry.
11. Method for assembling a throttle flap valve according to one of the preceding claims, CHARACTERIZED IN THAT in a first step, the seal element (4) is set onto the valve disk (6), that in a second step, sleeves (9) are set onto valve disk shafts (7) of the valve disk (6), that in a third step, the valve disk (6) provided with the seal element (4) and the sleeves (9) is placed between the flanges (3), that in a fourth step, the valve housing parts (5) are placed around the flanges (3), that in a fifth step, the valve disk shafts (7) of the valve disk (6) are oriented in a desired angle orientation, that in a sixth step, the adjustable means (13, 14) for applying contracting radial and axial forces to the sealing element (4) are adjusted until the flanges (3) are

rigidly connected with the clamp halves (5), forming a positive lock, and that in a last step, the means for turning the valve disk (6) are affixed.